

Title (en)  
ULTRASONIC SURGICAL INSTRUMENTS HAVING OFFSET BLADES

Title (de)  
CHIRURGISCHE ULTRASCHALLINSTRUMENTE MIT VERSETZTEN KLINGEN

Title (fr)  
INSTRUMENTS CHIRURGICAUX ULTRASONORES À LAMES DÉCALÉES

Publication  
**EP 3484383 A1 20190522 (EN)**

Application  
**EP 17742621 A 20170713**

Priority  
• US 201615211402 A 20160715  
• US 2017041852 W 20170713

Abstract (en)  
[origin: US2018014848A1] Ultrasonic surgical instruments having angularly and/or linearly off-set blades are described. The angularly and/or linearly off-set blades may facilitate increased surgical site access, visibility, and manipulability.

IPC 8 full level  
**A61B 17/32** (2006.01)

CPC (source: EP US)  
**A61B 17/320068** (2013.01 - EP US); **A61B 17/320092** (2013.01 - EP US); **A61N 7/00** (2013.01 - US); **A61B 17/2812** (2013.01 - EP);  
**A61B 2017/00477** (2013.01 - EP); **A61B 2017/00738** (2013.01 - EP US); **A61B 2017/320072** (2013.01 - EP US);  
**A61B 2017/320074** (2017.07 - EP US); **A61B 2017/320084** (2013.01 - EP); **A61B 2017/320088** (2013.01 - EP US);  
**A61B 2017/320094** (2017.07 - EP US); **A61B 2017/320095** (2017.07 - EP US); **A61B 2017/320098** (2017.07 - EP);  
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Citation (search report)  
See references of WO 2018013762A1

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DOCDB simple family (publication)  
**US 10842522 B2 20201124; US 2018014848 A1 20180118**; CN 109715089 A 20190503; CN 109715089 B 20220308; EP 3484383 A1 20190522;  
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JP 6968866 B2 20211117; US 2021128191 A1 20210506; WO 2018013762 A1 20180118

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**US 201615211402 A 20160715**; CN 201780056779 A 20170713; EP 17742621 A 20170713; EP 20169084 A 20170713;  
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